

ABSTRACT

Apparatus for modifying a property of a brain of a patient is provided, including one or more electrodes (7), adapted to be applied to a site selected from a group of sites consisting of: a sphenopalatine ganglion (SPG) (6) of the patient and a neural tract originating in or leading to the SPG. A control unit (8) is adapted to drive the one or more electrodes to apply a current to the site capable of inducing (a) an increase in permeability of a blood-brain barrier (BBB) of the patient, (b) a change in cerebral blood flow of the patient, and/or (c) an inhibition of parasympathetic activity of the SPG.